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ALBERT D. KING, INCORPORATED
65 King St.
Northampton, Mass.

May 15, 1953

Smith Campus Radio W.C.S.R.
Smith College
Northampton, Mass.

Dear Miss Davis:

For carrier current coupling to two phases of the college 3200 volt wiring system to give campus coverage, the following items are required:

Item One: Coupling box with phasing and matching network, mounted in weatherproof box outside building, complete, including adjustment, testing and five year guarantee; designed, built and installed by us..... \$ 580.00

Item Two: Capacitors to couple to line, 0.003 mf @ 10,000 Volts (working), special design, for total submersion, with pot type wiped joint terminals. Tentative maximum price estimated at \$150.00 each. Final billing to be at cost plus 15% for procurement\$ 300.00

Item Three: Mr. David, of the college, will estimate and quote on the following:

1. Two Tee Taps on 3200 Volt line.
2. Purchase and installation of two G & W pot type 5 ampere cut outs, without surge chambers. Two spare 5 ampere lines to be stocked by Mr. David.
3. Installation of capacitors with cut outs in transformer volt.
4. Wiring in conduit to coupling box furnished by us on side of radio station building, giving taps connected through the capacitors to two legs of the 3200 volt lines. All wiring to be done with Simplex Anhydrex Neoprene covered shield #4 stranded copper wire or equivalent.

It is estimated, by us, that the cost of the fore-mentioned items, with labor, of the work to be done by the college will not exceed \$ 870.00

GRAND TOTAL ESTIMATED \$1,750.00

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Work on Item one will be completed by Albert D. King, Inc. by September 1, 1953.

Item two will be ordered within ten days of approval of this agreement. These capacitors will be available before September 1, 1953, barring a strike at the G. E. Hudson Falls, New York plant.

Payment on items one and two will be 20% or \$176.00 before the work is started and the net balance due on or before October 1, 1953.

In general, the system is a matching network for the R.F. from the transmitter to two phases of the power line. There is no direct connection from the transmitter to the network. The network will be mounted outside the station in a locked metal box. The system is grounded through heavy copper wire capable of handling many times the current allowed by the 5 ampere fuses off the electric lines. In addition, the lines from the capacitor taps off the power line are protected by a western Electric grounding device at their entrance to the coupling box. Essentially the same system has been in use at Amherst College for the past two years.

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